

#### Flood Control District of Maricopa County Flood Control Advisory Board

Notice of Meeting for May 24, 2017

#### NOTICE OF MEETING OF THE FLOOD CONTROL ADVISORY BOARD

Pursuant to A.R.S. 38-431.02, notice is hereby given to the general public that the Flood Control Advisory Board (FCAB) will hold a meeting open to the public on Wednesday, May 24, 2017 at 2:00 p.m., in the Adobe Conference Room of the Flood Control District located at 2801 West Durango Street in Phoenix. Matters on the agenda may be discussed in executive session for the purpose of obtaining advice thereon.

The agenda is as follows:

- 1) Call to Order
- 2) Pledge of Allegiance
- 3) Approval of the Minutes: February 22, 2017 FCAB Meetings
- 4) Action Item Text amendments to the Floodplain Regulations for Maricopa County. Staff recommends the following action: The Flood Control Advisory Board endorse and recommend that the Board of Directors adopt text amendments to the Floodplain Regulations for Maricopa County. Presented by: Mark Frago, Planner Senior
- 5) Action Item Phase I of the Granite Reef Watershed Drainage Improvements Project (IGA FCD2017A017). Staff recommends the following action: The Flood Control Advisory Board endorse and recommend that the Board of Directors approve IGA FCD2017A017 for Phase I of the Granite Reef Watershed Drainage Improvements Project. Presented by: Mike Duncan, Project Manager
- 6) **Information and discussion item only**. Capital Improvement Program (CIP) Prioritization Procedure. *No formal action is required*. <u>Presented by</u>: Don Rerick, Planning and Project Management Division Manager
- 7) This item is for information and discussion only. Comments from the Chief Engineer and General Manager. *No formal action is required.* Presented by: William D. Wiley, P.E., Chief Engineer and General Manager
- 8) This item is for information and discussion only. Summary of Recent Actions by the Board of Directors. *No formal action is required*. Presented by: William D. Wiley, P.E., Chief Engineer and General Manager

#### Page 2 of 2

9) This item is for information and discussion only. Other Business and Comments from the Public. No action will be taken.

William D. Wiley, P.E.

Chief Engineer and General Manager

May 8, 2017

<u>NOTE</u>: A sign language interpreter will be made available upon request with 72-hours notice. Alternative format materials or FM or Infrared Listening Devices are also available upon request with 72-hours notice. Additional reasonable accommodations will be made available to the extent possible within the time frame of the request.

2801 West Durango Street Phoenix, Arizona 85009 Phone: 602-506-4708 Fax: 602-372-0989

# Flood Control Advisory Board MELCOME



### Agenda

- Call to Order
- Pledge of Allegiance
- Approval of the 2-22-2017 FCAB Meeting Minutes
- Text Amendments Floodplain Regulations for Maricopa County
- Phase I, Granite Reef Watershed Drainage Improvements
- Capital Improvement Program (CIP) Prioritization Procedure
- Comments from the Chief Engineer and General Manager
- Summary of Recent Actions by the Board of Directors
- Other Business and Comments from the Public





## Text Amendments to the Floodplain Regulations for Maricopa County

Mark Frago, AICP, CFM

Senior Planner

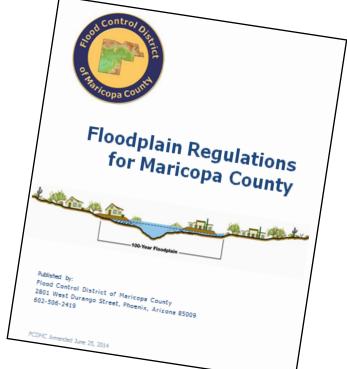
Policy, Planning & Coordination Branch

#### Purpose and Introduction

- To adopt text amendments to the Floodplain Regulations for Maricopa County.
- This public meeting is required by our Enhanced Regulatory Outreach Program.
- No additional regulatory burden as a result of these proposed text amendments.

#### Floodplain Regulations Update

- Changes in state statutes
- FEMA/ADWR audit requiring modifications
- Sand and Gravel taskforce changes



 Clarifications and minor wording changes

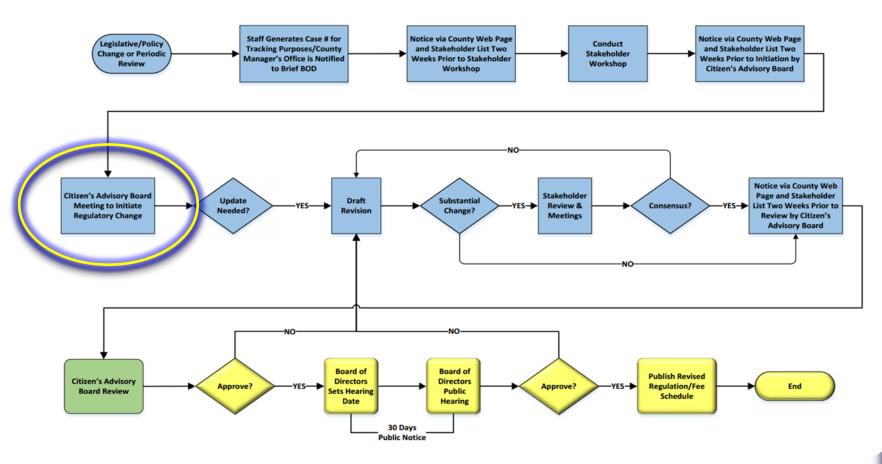
#### **Key Changes**

- Lifespan permits for Sand and Gravel
- Changes in fees to reflect modified permit structure
- Floodplain Use Permit fee reduction for modifications
- Licensing Timeframe
- Clarifications minor wording and location changes in document



#### **Flood Control District**

#### Fee Schedule/Regulation Modification Procedure



#### Stakeholder Workshop

- Per the EROP process, a stakeholder workshop was held on April 13<sup>th</sup> 2017 and was attended by 5 stakeholders.
- Comments were discussed at the meeting.
   To date, no written comments have been received per that workshop.

#### **Prior Steps**

 EROP Stakeholder meeting held April 13<sup>th</sup> 2017

 Flood Stakeholder Group meeting held April 13<sup>th</sup> 2017



#### **Next Steps**

 Process comments and finalize changes to the Regulations



 2<sup>nd</sup> Public Meeting with the Flood Control Advisory Board scheduled for June 28<sup>th</sup> 2017 to approve changes for text amendments to the Floodplain Regulations for Maricopa County



## Questions?



## **Granite Reef Watershed Drainage Improvements**

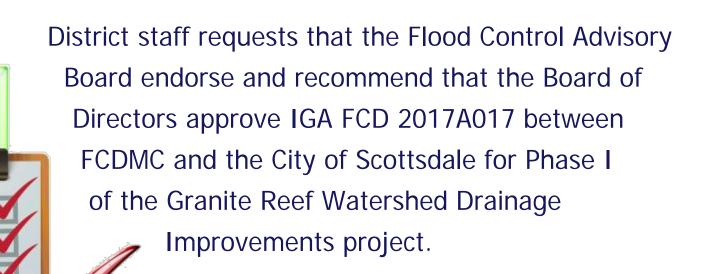
-Phase I-

Intergovernmental Agreement FCD 2017A017

Mike Duncan, P.E., CFM

Project Manager

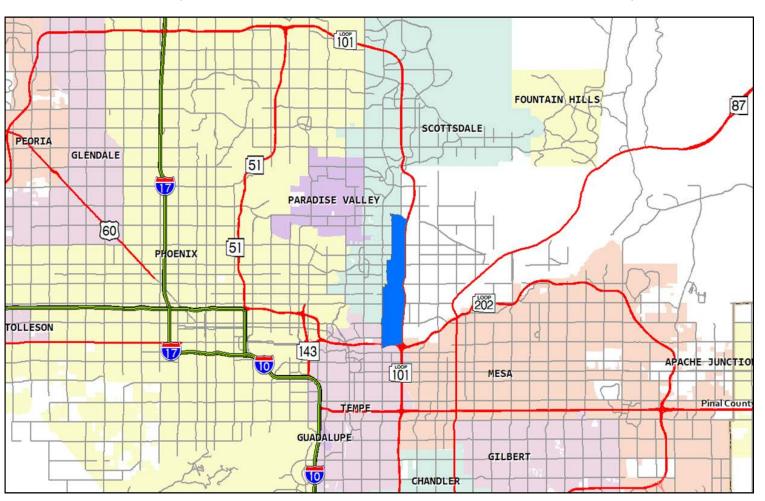
#### **Action Item**





#### **Granite Reef Watershed**

(Location – southeast Scottsdale)



100-year FEMA
Floodplain of
Granite Reef
Wash
is at the south
part of the
Watershed

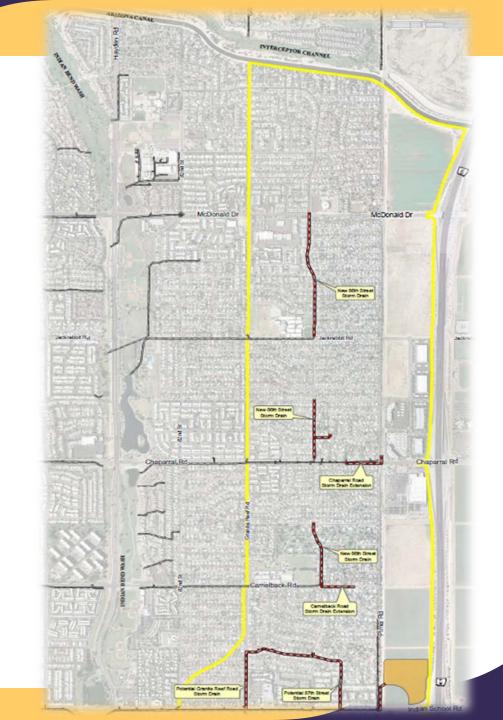
Approximately 700 homes are in the floodplain



#### Phase I

#### Arizona Canal at north

Indian School Road at south

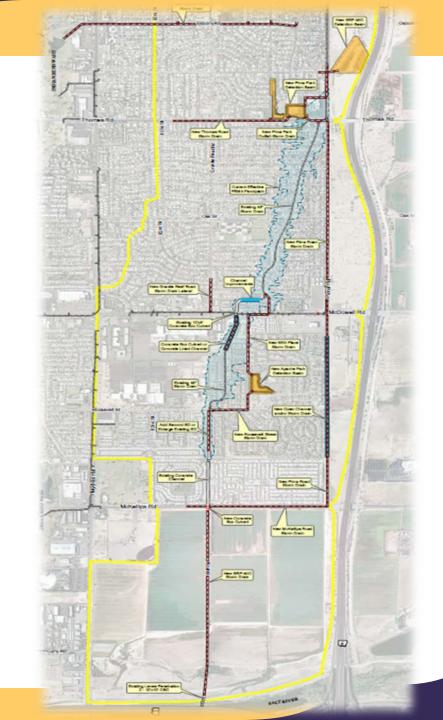




#### Phase II

Indian School Road at north

Salt River at south



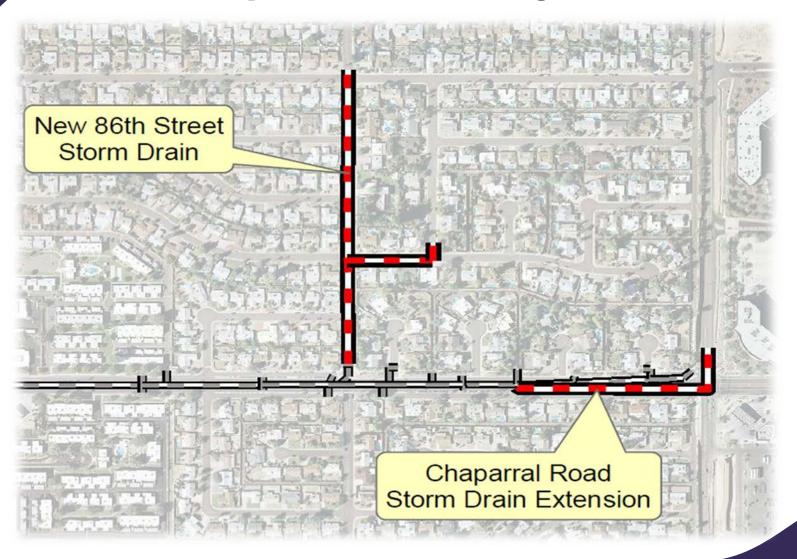


#### **Jackrabbit Road System**



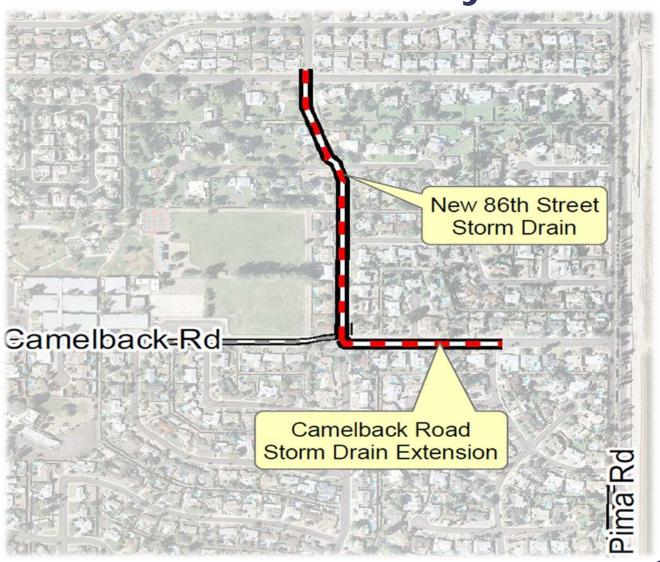


#### **Chaparral Road System**



#### 9

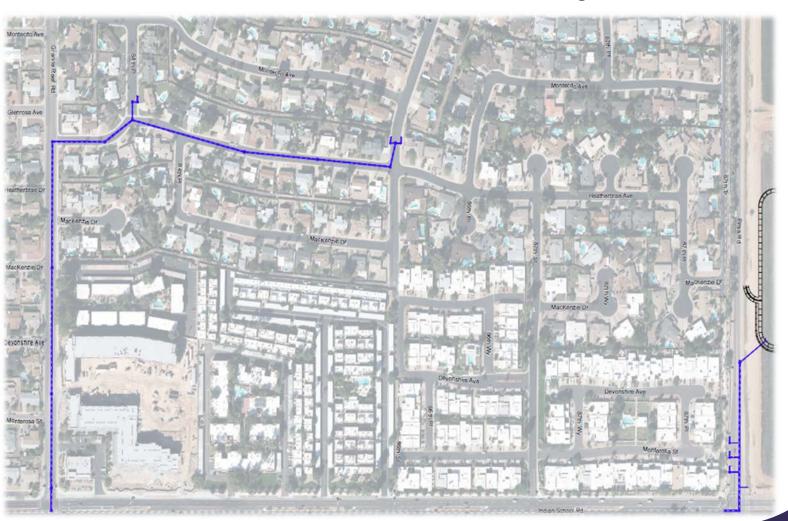
#### Camelback Road System





#### **Concept for Phase I-B**

Indian School Road System





#### **Estimated Costs**

\$ 4.5 M Phase I-A

\$ 2.1 M Phase I-B

\$ 6.6 M Total for Phase I



#### Partner Cost Sharing: 50/50%

\$ 3.3 M by Scottsdale

\$ 3.3 M by FCDMC

#### **O&M** will be by City of Scottsdale

#### $\mathcal{Q}$

#### Requested Action

District staff requests that the Flood Control Advisory Board endorse and recommend that the Board of Directors approve IGA FCD 2017A017 between FCDMC and the City of Scottsdale for Phase I of the Granite Reef Watershed Drainage Improvements project.

## Questions





## Capital Improvement Program Prioritization Procedure (CIPPP)

Don Rerick, P.E.

Planning and Project Management Division Manager

#### **CIPPP Purpose**

Primary annual mechanism for evaluating newly proposed capital projects for possible funding.

Identify and support flood control and regional drainage projects that:

- Provide long term protection to people and property
- Supports community development
- Provide opportunities for multi-use and open space

#### **Prioritization Schedule**

Mid May	Agency Notices Sent
Mid July	Agency Proposal Submittals Due
August	Submittals Reviewed by Evaluation Committee
August	Evaluation Committee Recommendations to PPM Manager & CE & GM
September	FCAB Program Budget Committee Review
September	Staff Recommendations Forwarded to Agencies
October	Staff Recommendations Presented to FCAB for Action
December	Prioritization Procedure Results Published
January	Agencies Informed
January - March	Yearly CIP Programming/Budgeting Process
March - June	Appropriate 5-Year CIP Modifications/Adjustments through OMB Review and Guidance

#### **CIPPP Submittal Requirements**

- Submittals made electronically by means of email or CD, including a signed letter of intent (LOI).
- Project submittals should clearly address the project evaluation criteria.
- Maps and similar graphic aids demonstrating prospective project elements are recommended.
- Local (non-District) master plans should be included with the submittal.

#### **CIPP Prioritization Criteria\***

<ul> <li>1. Funding Commitment &amp; Agency Priority: <ul> <li>Is project part of short or long-range CIP Program?</li> <li>Does project have scheduled funding?</li> </ul> </li> </ul>	<ul> <li>5. Area Protected: <ul> <li>What is the benefitted infrastructure?</li> </ul> </li> <li>What are the number of benefitted buildings and population?</li> </ul>
<ul> <li>2. Flood Control/Drainage Master Plan Element:</li> <li>Is it part of existing storm-water management or drainage master plan?</li> </ul>	<ul> <li>6. Ancillary Benefits:</li> <li>Does the project provide a benefit needed for economic development?</li> </ul>
<ul> <li>What is the priority of project within the overall plan?</li> </ul>	<ul><li>Are there water conservation/recharge opportunities?</li></ul>
8	• Multi-use opportunities. 12
<ul><li>3. Flooding Threat:</li><li>Is project intended to address existing flooding hazard?</li></ul>	<ul> <li>7. Level of Partner Participation:</li> <li>Greater points given to projects with maximum external agency participation.</li> </ul>
<ul> <li>Has documented flooding of structures occurred?</li> </ul>	12
<ul><li>4. <u>Level of Protection</u>:</li><li>10 year to 100 year.</li></ul>	<ul> <li>8. Operation and Maintenance Costs to District:</li> <li>• Greater points are assigned to requests with minimal O&amp;M costs to be borne by District.</li> </ul>
10	6

Total: 100

#### CIP Project Prioritization Scoring Guide

FACTOR	RANGE			PEC POINTS	
Funding Commitment & Agency Priority	Low 0	<u>Med.</u> 1-4	<u>High</u> 5-12	12	
High Range: Funding is identified in the municipalities				ental Agreement,	
and Project is ranked 1st or 2nd among agency's sub- Med. Range: Funding is likely to be identified in the r		TP and/or Project is ran	ked hetween 3rd or 4t	h among agency's	
submittals.	ituricipanties 5-year e	or roject is rain	aca between 51a of 40	it afficing agency s	
Low Range: Funding is not identified in the municipa	lities' 5-year CIP, or P	roject is ranked 5th (or lo	ower) among agency's	submittals.	
Flood Control/Drainage Master Plan Element	<u>Low</u> 0-4	<u>Med.</u> 5-6	<u>High</u> 7-8	8	
High Range: Project is directly recommended by a fo				the District.	
Med. Range: Project is directly recommended by a for across a municipality or over a significant portion of accomplishes a portion of the master plan's intent.	rmal flood control/dr	ainage master plan/study	that is non-regional b	ut examines impact	
Low Range: Project is identified by a localized flooding	ng/drainage study that	does not address overall	system effectiveness:	or the need for the	
submitted project is not identified by any flooding/d			,		
	Low	Med.	High		
Flooding Threat	0-5	6-12	13-15	15	
High Range: Project mitigates residential/commercia	flooding identified b	y a delineated floodplain	where development re	gulations are insufficie	
or where development occurred prior to floodplain d					
frequent historic flooding	3	•			
Med. Range: Project mitigates residential/commercia	flooding identified b	y a delineated floodplain	(or mitigates flooding	in a non-delineated	
flood hazard area subjected to frequent historic flood					
threat, but where some flooding threat remains.					
Low Range: Project mitigates a minor or questionable	flooding threat to str	uctures; or only protects	roadways. Fewer poir	nts will be awarded to	
those projects that are intended to resolve flooding issu	es caused by inadequa	te or improper regulation	by the requesting age	ency.	
	<10 yr	10-50 yr	>50 yr	200	
Level of Protection	0	3-7	8-10	10	
>50 yr: Project generates a level of protection from ev	ents more severe than	a 50-year storm (where the	hat level of protection	does not currently evis	
not currently exist). >10 yr: Project generates a level of protection from eve	ents less than a 10-year	r level of severity - the D	istrict typically would	not participate in	
projects of this scope.					
Area Protected	Low 0-8	<u>Med.</u> 9-16	High 17-25	74.00	
High Range: Project protects a large area of highly-po				25	
6 - 1 - 61 - 11 - 1 - 11 - 1 - 11	pulated faild with sig.	nificant infrastructure, or	provides a particularly		
for a smaller area of highly-populated land with signi		nificant infrastructure, or	provides a particularly		
	ficant infrastructure			7 cost effective solution	
Medium Range: Project protects a large area of lightle for multiple large-scale future developments	ficant infrastructure			7 cost effective solution	
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#### LOI and Map Example

Pi	oject Name:	Pinnacle Peak & 67th Avenue Drainage Improvements		
	me of Submitting Agency:	City of Peoria		
	General			
	A. Project Area	The areas bounded by 67th Avenue on the east, Pinnacle Peak Road on the south New River on the west and Hatfield Road on the north. Section 12; T.4N.; R.1E.		
	B. Summary Project Description	Construct 100-Year storm drain system per the recommendation from the Glendale-Peoria ADMP and Design Concept Report for 67th Avenue.		
	C. Estimated Project Cost	\$14,140,000.00		
2.	Proposed Lead Agency by Task	(For each task, indicate "District", City/Agency name, or "Not Applicable")		
	A. Design	District		
	B. Rights-of-Way Acquisition	Peoria & District		
	C. Construction	District		
	D. Operations and Maintenance	Peoria		
1.	Proposed Cost Share			
		District City/Agency Other Total		
	A. Percentage	50.00% 50.00% 0.00% 100.00%		
	B. Dollars	\$7,070,000.00 \$7,070,000.00 \$14,140,000.00		
	Estimated Availability of City/Ag	gency Funding (Dollars)		
	FY 2016/17 FY 2017	/18 FY 2018/19 FY 2019/20 FY2020/21 Later FYs		
	\$7,070,00	00@ \$7,070,000@		
	Master Plan/Study Applicable to	Submitted Project		
	A. Title (if applicable)	Glendale-Peoria Area Drainage Master Plan, 2001 & 67th Av. DCR, April 2007		
	B. Adopted by City/Agency?	✓ Adopted Not Adopted Pending Not Applicable		
		Public Works Director, or Agency Manager)		
	Agency Approval (City origineer,	Public Works Director, or Agency managery		
3	(Suller)	07/12/2016		
	Signature	Date		
Andrew Granger		Development and Engineering Director		
	Printed Name	Title		



#### **CIPPP Project Submittals**

Fiscal Year	# Submittals	# Recommended
2007	25	9
2008	19	7
2009	12	5
2010	19	8
2011	16	4
2012	7	3
2013	11	4
2014	6	1
2015	9	3
2016	6	2
2017	11	2
2018	1	1
Total	142	49

# Backlog and Active Projects Recommended through the CIPPP

	_		
<u>Project</u>	<u>District</u>	City	Project Cost
Central Chandler Storm Drain Improvements	1	Chandler	\$2,800,000
handler Heights Basin	1	Gilbert	\$8,500,000
ast Maricopa Floodway Low Flow Channel	1	FCD	\$2,300,000
ighline Western Canal Storm Drain	1	Tempe	\$3,980,000
oma Vista Corridor Drainage Improvement Project	1	Tempe	\$2,670,000
ittenhouse Basin ittenhouse Road FRS	1	Gilbert FCD	\$1,990,000 \$8,200,000
emeil Channel Modifications	2	Paradise Valley	\$5,500,000
Ilsworth Rd. & McKellips Rd. Drainage System	2	Mesa	\$4,800,000
ranite Reef Wash Drainage Improvements	2	Scottsdale	\$21,375,000
cCormick Stillman Railroad Park/Lincoln Drive Drainage Improvements	2	Scottsdale	\$6,703,400
ak St. Detention Basin and Storm Drain	2	Mesa	\$3,480,000
ecos North and South Detention Basins	2	Mesa	\$15,500,000
ecos Road Channel	2.	Mesa	\$13,620,000
amelback Road Storm Drain (Arcadia Phase III)	3	Phoenix	\$5,310,000
ave Buttes Dam Modifications Phase 1	3	Phoenix & USACE	\$5,790,000
ave Buttes Dam Modifications Phase 2	3	Phoenix & USACE FCD	\$4,720,000
kunk Creek Levees at CAP gua Fria Boulevard Scour Protection Grade Control Structure	4	MCDOT	\$8,900,000 \$2,000,000
gua Fria River Levee Safety Improvements	4	Avondale	\$440,000
C&SF Channel	4	MCDOT	\$6,377,000
ckeye FRS No 1 Rehabilitation Phase 1	4	FCD.	\$5,490,000
ickeye FRS No.1 Rehabilitation Phase 2	4	FCD	\$23,865,000
ullard Wash (Phase II)	4	Goodyear	\$12,500,000
owntown Buckeye Regional Basin & Storm Drain	4	Buckeye	\$3,778,900
appy Valley Channel	4	Surprise	\$2,260,000
ike Air Force Base Flood Mitigation Improvements	4	LAFB	\$5,975,000
:Micken Dam Outfall Channel	4	FCD	\$16,400,000
cMicken Dam Rehabilitation Phases 1 & 2	4	FCD	\$23,446,000
Micken Dam Rehabilitation Phases 3 & 4	4	FCD	\$34,078,000
cMicken Dam Rehabilitation Phases 5, 6 & 7	4	FCD	\$29,696,000
ew River Dam Outlet Improvements	4		\$900,000
orthern Parkway Drainage Improvements - Phase II (Dysart Rd. to 111th Ave.)	4	MCDOT Buckeye	\$7,246,550 \$37,400,000
glesby Drainage System alo Verde Drainage System	4	Buckeye	\$93,700,000
ooks Drainage System	4	Buckeye	\$45,500,000
kunk Creek Channel at Pinnacle Peak Rd. and 35th Ave.	4	Phoenix	\$8,500,000
kyline Wash Basin and Outlet	4	Buckeye	\$6,800,000
R-85/Oglesby Outfall Channel	4	ADOT/FCD	\$14,000,000
nion Hills Drainage Improvements Phases I & 2	4	Peoria & Surprise	\$8,010,000
nion Hills Drainage Improvements Phase 3	4	Peoria & Surprise	\$3,845,000
addell Rd. Drainage Improvements	4	Surprise	\$772,000
atson Drainage System	4	Buckeye	\$40,788,000
hite Tanks FRS No.4 Outlet	4	FCD	\$8,035,000
hite Tanks FRS No.4 Rehabilitation Phase 2	4	FCD	\$23,072,000
Oth Ave. and Turney Ave. Detention Basin	5	Phoenix	\$13,000,000
th Ave. & South Mountain Ave. Basin	5	Phoenix Phoenix	\$5,236,000
7th Avenue and Dobbins Road Detention Basin Project	5	Glendale	\$6,700,000 \$4,070,000
ethany Home Rd. Storm Drain (59th Ave. to 79th Ave.) ethany Home Road Storm Drain (51st Ave. to 59th Ave.)	5	Glendale	\$3,150,000
rcle K Park Detention Basin and Storm Drain	5	Phoenix	\$16,800,000
owntown Phoenix Drainage System Improvements	5	Phoenix	\$300,000
RCC (107th Ave. to Agua Fria)	- 5	Avondale	\$6,320,000
RCC (75th Ave. to 107th Ave.)	5	Phoenix	\$11,365,000
arquahala FRS Erosion Hazard Reduction	5	FCD	\$2,000,000
fferson St. and I-17 Storm Drain	5	Phoenix	\$3,100,000
addleback FRS Modifications	5	FCD	\$20,000,000
and Tank Wash Flood Control Improvements	5	Gila Bend	\$11,707,000
outh Gila Bend Drainage Improvements	5	Gila Bend	\$283,000
outh Phoenix/Laveen Drainage Improvement Project	5	Phoenix	\$11,300,000
an Buren St. Channel (99th Ave. to Agua Fria River)	5	Avondale	\$9,347,000
eridian North and South Channels	1, 2	Mesa	\$2,400,000
werline FRS Replacement & Decommissioning (Channel)	1, 2	FCD	\$30,762,500
neyard FRS Rehabilitation	1, 2	FCD	\$58,118,000
uadalupe FRS Modifications	1,5		\$3,000,000
podprone Property Acquisition <u>Program</u>	1, 2, 3, 4, 5		\$0 \$1,000,000
and Rights Acquisition <u>Program</u> Sintenance Road Paving (Dust Abatement) <u>Program</u>	1, 2, 3, 4, 5		\$1,500,000
mall Projects Assistance <u>Program</u>	1, 2, 3, 4, 5		\$30,000,000
men codeste constitute Livingin	1, 2, 0, 4, 0		\$30,000,000

\$842,471,350

#### FAQ's

#### Q: How do new projects recommended in one fiscal year CIPPP fit in with other previously recommended projects?

A: Newly recommended projects sit in the que with other previously recommended projects until such time as the submitting agency desires the project to move forward. The CIPPP process itself does not ensure that a project will move forward. A project can move forward when funding is available and the FCD and submitting agency sign an IGA.

#### Q: Will the 5-Year CIP be revised for new recommended project submittals with a high point score?

A: The 5-Year CIP is updated annually and can include new projects that have been recommended subject to funding availability and a signed IGA for the project.

#### Q: Is lack of funding by a submitting agency a project killer regardless of total points scored?

A: No, the project simply does not move forward until such time as funding is available and an IGA has been signed.





# Comments from the Chief Engineer and General Manager



#### Summary of Recent Actions By the Board of Directors



Denny Barney
District 1
- Chairman -



Steve Chucri District 2



Bill Gates
District 3



Clint L. Hickman District 4



Steve Gallardo
District 5

## Other Business and Comments from the Public

